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Department of Commerce and Labor COAST AND GEODETIC SURVEY	JAN 30	INTT
State: Wrgma	Sales Annual Control	
DESCRIPTIVE REPORT.  14yd Sheet No. 3219.		
James River Buckler's Point to City Point.		
1960-1911		

# 3219

DEPARTMENT OF COMMERCE AND LABOR:

C. & G. SURVEY,

JAN 3 0 1011

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the James River.

TITLE SHEET.

3217

For Tepegraphic & Hydrographic Sheet No. 1591 b.
Second Section.

between

Latitude 37 17' 00" to 37 20' 00" N.

Longitude 77 07' 00" to 77 16' 40" W/

SCALE 1:20000.

From October 21,1910 to January 6,1911.

SCHOONER "MATCHLESS".

O. W. Ferguson, Assistant, C.& G.S. In Command.

OBSERVERS.

O. W. Ferguson, Assistant; James E. Marsh,

Mate; Ghas. A. Mourhess; Aid; Jehn W. Clift,

Chief Writer.

RECORDER.

H. W. Godsey, Writer 2cl.

LEADSMEN.

A.C. Pinder, S.M.M.: S.I. Jackson, Q.M. 3cl.

TIDE OBSERVERS.

C. P. Helland, C. B. M.

A. L. Williams, O. S.

P. OBrien, M.A. 1cl.

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The topography of City Point was done anew and in the mapping, for the sake of appearance of this sheet, the town is put on. On the old sheets it is only shown on sheet 1438, just above this, 1391 b. hyds class 3219

#### CONTROL.

Ample control of this work is furnished by the scheme of triangulation executed.

The Declination of the Magnetic Needle at Station palmer  $\psi$  37 18' 1697 m.  $\lambda$  77 16' 604 m. determined gave 3 19' 18" West.

This being much less than as found at Willcox Wharf Q 37 19' 29m.  $\lambda$  77 05' 1353m. of 5 54' W., and at Sandy Point Q 37 14' 434m.  $\lambda$  76 56' 573m., 4 58' W. I went to the Station on head of Eppes Island, Q 37 19' 1129m.  $\lambda$  77 15' 1440m. (and found the declination to agree almost exactly with that at  $\Delta$  Palmer on the opposite side of the river) 3 18' 57" W.

This stretch of the james River contains Tar Bay and Bailey Creek Bay, two very wide places in the river though most of the width is a mud flat, with but a few inches of water at low tide, and reaches to City Point just below where the Appoint River joins and where is another wide expanse of water er most of which is shallow. From here to Rickmond the River assumes a more and more narrow width.

#### SHORES.

The shores on this sheet are wooded for several hundred feet more and less back from the river and rise to a varying height on the North side of from a few feet to twenty feet, and on South side generally higher, from a few feet, to 65 feet.

Some stretches of the shore are swampy where the gum and cypress trees thrive and the ground is covered at high tide, and marshy and muddy at low tide; many stretches are sand, and other stretches as below Eppes Island and around City Point are shingled with stones, small boulders, from an ounce to 20 pounds, in weight.

The low and muddy areas of the river here, present the same bare aspect as below, the grass having all disappeared, due to some new phenomon, some say from freezing at low tide and pulling up grass as tide rises; some say from the great floods of modern times, still these phenomena are not new, yet whereas there was great areas of grass up to ten years ago, now, much to the regret of the sportsman and fishermen, it has disappeared and the most evident reason is the work of the Hog fish or German Carp.

#### LANDINGS.

The regular steamboat landings on this sheet are at Westover Wharf and City point. The first is only a landing place
for local passengers and for shipping produce from and to the
surrounding country. City Point is by far the most importand but its business has fallen off greatly of late years.

Formerly large vessels of 1800 tons, were loaded with tobacco,
grain, flour and merchandise for foreing ports, England and
Brazil, and brought back molasses, coffee and mase. The larger
vessels were lightered at Berkely and below jamestown Island.

The channel now is not altogether as efficient and ships used
are larger. It is the terminus of the branch of the Norfolk
and Western R.R.from petersburg, Va., and brings to this point
large quantities of lumber, etc., which is shipped in barges

towed to Baltimere and Norfolk; and ships away from here large quantities of grain, peanuts, etc. that is unloaded here from the steamers. The town has a large freight depot, two supply stores, two churches, a post effice and telephone service.

#### CREEKS.

powells Creek is the most important, furnishing 6 feet at low tide, is about two miles long and 75 metres wide and is deeper inside, furnishing from 12 to 18 feet depth; has several wood landings; small schooners, lighters and gasoline Launches take out lumber, ties, piles, wood and supplies.

Herring Creek affords 4 feet at mouth and affords navigation for small Batteaus and flat boats which lighter out wood and ties. Inside there is a good depth of water; it is nearly three miles long and 80m. wide.

Baileys Creek is shut out by mud flat and could not be entered.

Eppes Creek furnishes 1/2 foot at low water. It is of small consequence, can be entered by flat boats for lightering out wood.

#### WATER.

Artesian water is obtained in fair flow in all of this region. This adds much to the health of the people. I, nearly always, secure artesian water for drinking purposes for the ship. Artesian water had not been found, 1860 to 1864, when the armies were active through here.

#### OCCUPATION.

There is no manufacturing, no packing houses on this sheet but a considerable lumber is sawed and shipped; this and farming, the navigation of the river, distribution of supplies and shipping products furnish the occupation of the people.

PRODUCTS.

The products are Corn, Oats, Wheat, Peanuts, Poultry, Pork and some cattle. Peanuts is the money crop of the farmer these years; whereas formerly, with cheap help, they sold for .50 a bushel, now, using machinery mainly, they bring \$ 1.25 to 1.50 a bushel and hundreds of thousands of bushels are shipped. Wood, ties, lumber and piling are also shipped, to Baltimore and New York.

#### NAVIGATION.

This is aided during the day by bueys, and at night by Maycox and Harrison Bar Range Lights, by Jordan Point Light and Black Beacon off Baileys Creek. Flats.

The only changes in depths from former surveys noted are off Baileys Creek and Coggins Point where the channel shows a filling up of from two to three feet.

List of positions to accompany
32/9
Topographic and Hydrographic Sheet 1391 b. (2d. section).

	Pos	ition	Computed		*	
	Lat	itude	D.M.	Long	gitude	D.P.
Bailey	37	18	560.1	77	15	815.0
Bermuda	37	19	1574.1	77	17	229.7
Blair	37	17	1646.8	77	07	1373.8
Buck	37	18	879.5	77	07	1128.7
Cardine	37	19	942.7	77	12	802.0
Church (Baptist)	37	20	880.2	77	17	632.4
Coggins	37	17	1836.7	77	09	1304.1
Endicotts(Water Tower)	37	17	1424.9	77	10	47.9
Eppes	37	19	667.9	77	14	422.3
Harrison	37	18	1596.3	77	11	241.8
Harrison(Water Tower)	37	19	180.6	77	10	1258.3
Hauger	37	18	1188.4	77	07	638.6
Hundred	37	20	861.7	77	16	364.1
Indian(Old Stone)	37	18	447.6	77	12	516.2
Island	37	19	1129.1	77	15	1440.0
Jordan (U.S.E.B.M. (given	. <b>37</b> <b>3</b> 8	18 18.8	1451.4	77 77	13 13.4	629.0
Jordan Peint Light House	37	18	1442.2	77	13	627.7
Major	37	19	887.5	77	13	728.0
May	37	18	21.6	77	08	1067.7
Over	37	18	1133.2	77	08	1288.9
Palmer(very near old '71	) [37	18	1697.1	77	16	604.1
Pack	37	19	94.9	77	15	1298.1
Pen	37	17	1667.2	77	06	1308.4

List of positions to accompany
32/9
Tepegraphic and Hydrographic Sheet 1391 t. (2d.section).

#### Position Computed

	Lat	itude	D.M.	Long	gitude	D.P.
River	37	17	207.4	77	11	476.9
Spencer(very near '71 )	37	17	1817.0	77	08	1253.2
Spire (Episcopal Church)	37	18	1421.5	77	16	922.4
Van	37	17	1563.6	77	14	459.7
West (U.S.E.B.M. (given	37 37	18 18.6	1097.5	77 77	09 09.9	1335.3
Westover(Water Tower)	37	18	1316.3	77	08	1284.9
Windmill (at Grants Headquarters)	37	19	23.1	77	16	1005.8
Positi	ons	plotted	from computa	tion	of tr	iangles.
En d	37	19	106.0	77	16	996.0
High Pile	37	17	318.0	77	11	737.0
Lightning Red	37	17	1300.00	77	14	245.0
Pile below Depot	37	18	1601.0	77	16	469.0
Pinder	37	18	1188.0	77	10	1186.0
Upper Gable Depot	37	18	1753.0	77	16	600.00
Positi	ons	plotted	from Sextant	Ang	les.	
Gum	37	19	334.0	77	15	695.0

C. & G. SURVEY,

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STATISTICS, Sheet # 13910

Second Section.

	1910 1911.	Letter	Positions	Soundings	Miles Statute	Vessels.
November	18	a	67.~	549	17.3	Steam Launch
January	5	lo-	47	299	8.2	
	6	(°	16	130	2.5	
		3	130	978	28.0	
November	16	a	40	307	5.5	Whaleboat
	17	ъ	79	613	11.7	
	18	C	46	352	6.7	
December	7	đ	8	65	1.0	
	8	e	82	832	13.0	
	8	e	22	219	3.25	
	9	f	19	186	3.0	: 
	15	g	60	552	8.55	1
	•	7	356	3126	52.7	

#### RECAPITULATION.

Total	10	486	4104	80.7	
Whaleboat	7	356	3126	52.7	
Steam Launch	3	130	978	28.0	

### Hydrographic sheet 3219.

James River, Virginia, Bucklers Point to City Point, by Asst. O. W. Ferguson in 1910-1911.

#### TIDES.

	City Point ft.
Mean low water, or plane of reference on staff	2.6
Lowest tide observed " "	0.9
Highest " " " "	6,3
Mean range of tide	2.8

Coast and Herdelfe Burrey MAR 2: 19 11 TIDAL DIVISION

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See refert with Kyd Their 3202

Sheets for 320243219 Ilay 4, 1911.

This survey which covers the over from Beaudon of to Cety Of shows very lettle, of any, change in defth through the channel although the lefth over the flats is a lettle less than shown by the the previous envey.

The development is very good over the shole area covered, the lines cross well and the seconds area left in a satisfactory manner.

Hell in a satisfactory manner.

Hyd Sheet Mr. 3219. May. 15,19,

See sefect with Hyd Sheello 3226.

All

Ayd Sheets Am 3226, 3227, 3219, 3241+3241° Way 15 1911 The surrey shown on there sheets uttende fun lety Pt to Michniona Shele it is not a dose development it is sufficient to show the change that has taken place and the defth that can un be arred though the should Thus has been a defening in the channel at reveral places so that 18 feet can now be carried over the whole langth of this part of The field week was wedently very carefully dene or there are but few crossings where the seculongs do not ague fufetty The records were keft in a satisfactory name 4 Summer

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